

# भारत का राजपत्र

## The Gazette of India

प्राधिकार से प्रकाशित

PUBLISHED BY AUTHORITY

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NEW DELHI, SATURDAY, JULY 23, 1988 (SRAVANA 1, 1910)

इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके।  
[Separate paging is given to this Part in order that it may be filed as a separate compilation]

### भाग III—खण्ड 2

#### [PART III—SECTION 2]

पेटेंट कार्यालय द्वारा जारी की गई पेटेंटों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस

[Notifications and Notices issued by the Patent Office relating to Patents and Designs]

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Calcutta, the 24th June 1988

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## CORRIGENDUM

1. In the Gazette of India, Part III, Section 2, dated March 19, 1988 under the heading 'Complete Specification Accepted' on page 211 and 212.

(i) In respect of Patent No. 162037(220/Bom/1985) For 6 claims read as 2 claims.

(ii) In respect of Patent No. 162038(319/Bom/1985) International Classification read as 'B 62 D-61/02' and date of application filed read '21st NOVEMBER, 1985' and pages of provisional specification For 16 PAGES read 6 PAGES.

2. In the Gazette of India, Part III, Section 2, dated April 9, 1988 under the heading 'Complete Specification Accepted' on page 277, 278 and 279.

(i) In respect of Patent No. 152172(2/Bom/1985). For International Classification 23 C-7/00 read 'B23 C-7/00' and total pages drawing sheet read as :—

Provisional Specification 7 pages. Drg. 1 sheet. Complete Specification 12 pages. Drg. 1 sheet.

(ii) In respect of Patent No. 162176 (80/Bom/85). In the address of applicant and inventor. For 'E-780' read 'E/80'.

(iii) In respect of Patent No. 162179. For '266/OOM/1985' read as '266/Bom/1985'.

(iv) In respect of Patent No. 162032(22/Bom/1985) Fig-1 read as

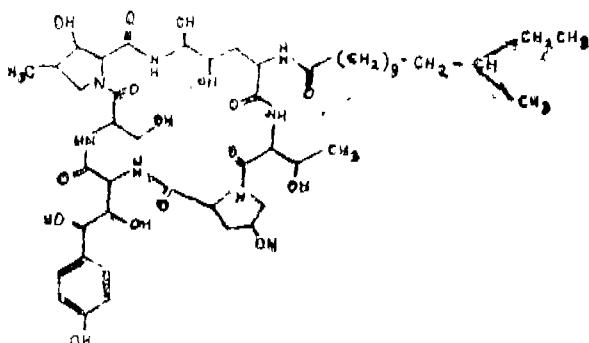


Fig. I

3. In the Gazette of India, Part III, Section 2, dated April 16, 1988 under the heading 'Complete Specification Accepted' on page 293 and 294.

(i) In respect of Patent No. 162204—Application number read as '84/Bom/1986 Filed on 4th March, 1986 and in claim, in line 4, For REALS read REELS.

(ii) In respect of Patent No. 162205—For International classification A 23 1-1H/00 read as A 23 1-1/00 and date of Application filed For 24th April, 1986 read 21st April, 1986.

(iii) In respect of Patent No. 162206(135/Bom/86)—in claim, in line 1, for 'LYSER' read as 'ANALYSER'.

(iv) In respect of Patent No. 162210(326/Bom/1986)—For Indian Classification 32 F<sub>2</sub> at C, 55 O<sub>2</sub> read 32 F<sub>2</sub> at C, 55 D<sub>2</sub> and in claim, in line 4 for 'ISOPROPYL' read as 'P-ISOPROPYL'.

In the Gazette of India Part III Section-2 dated 27th February 1988 under the heading "Complete Specification accepted" on page 160 and 161 in respect of Patent Application No. 161911.

insert :—Application No. 873/Cal/85 filed December 5, 1985. In respect of Patent Application No. 161916.

(i) insert :—Application No. 44/Cal/86 filed January 22, 1986.

(ii) Inventor :—For PAIME ERNESTO SIMAN Read JAIME ERNESTO SIMAN.

APPLICATION FOR PATENTS FILED AT  
THE HEAD OFFICE  
234/4, ACHARYA JAGADISH BOSE ROAD  
CALCUTTA-20

The dates shown in the crescent brackets are the dates claimed under Section 135, of the Patents Act, 1970.

The 16th June 1988

489/Cal/88. Neyric, a French Societe Anonyme. Laser ray projector and remote measuring device comprising at least two of these projectors.

490/Cal/88. E. I. Dupont de Nemours and Company. Colored Aramid fibers.

491/Cal/88. Kievsky Meditsinsky institut imeni akademika A. A. Bogomoltsa. Method for preparing dense nutrient medium for culturing microorganisms.

492/Cal/88. Aleksandr semenovich bukatov. Heart valve prosthesis. Naum Abramovich iofis Jury Grigorievich Egorov Natalya Borisovna Dobrova, Anatoly Stepanovich Kostvetsov, Andrei vasilievich Agafonov.

493/Cal/88. Electrometal Limited. Connectors for cables.

494/Cal/88. Electrometal Limited. Beam clamp.

495/Cal/88. Electrometal Limited. Conduit hanger.

The 17th June 1988

496/Cal/88. Viktor alexeevich lipatov. Surgical suturing instrument. Nikolai Nikolaeovich Kanshine Igor Alexeyich Guskov.

497/Cal/88. Institut elektrosvarki imeni E. O. Patona akademii nauk ukrainskoj SSR. Transducer of acoustic emission signals.

498/Cal/88. Stahlwerke bochum aktiengesellschaft. Process of forming electrically insulating coatings on metallic surfaces.

The 20th June 1988

499/Cal/88. Westinghouse electric corporation. Improvements in or relating to electrical contacts for vacuum interrupter devices.

500/Cal/88. Institut fiziki akademii nauk latviiskoi SSR Rizhsky politekhnichesky institut imeni. Yapel'she Furnace for preparing and delivering alloys.

501/Cal/88. Fried Krupp gesellschaft mit beschränkter haftung. Tool arrangement having angular position fixing means.

502/Cal/88. METALLGESELLSCHAFT AKT ENGESHL-SCHAFT. Process of Decreasing the Tendency to Form Deposits in Plants for Evaporating Spent Sulfite Liquors.

The 20th June 1988

503/Cal/88. McNeilab, Inc., Oral sustained release acetaminophen formulation and process.

504/Cal/88. Siemens Aktiengesellschaft. A Circuit-breaker.

505/Cal/88. Ped Limited. Improvements in and relating to Electrical components. (Convention date 10th July, 1987). United Kingdom.

The 22nd June 1988

506/Cal/88. Belorussky gosudarstvenny universitet imeni V. I. lenina. Apparatus for remote transmission of angle of rotation and force between master and slave shafts.

507/Cal/88. General electric company. Hollow cathode plasma assisted apparatus and method of diamond synthesis.

508/Cal/88. Unilever PLC. Food product. (Convention date 26th June, 1987) U. K.

509/Cal/88. Warman International Ltd. Seal Ring. (Convention dated 29th June, 1987) Australia.

510/Cal/88. Warman International Ltd. Annular Elastomeric Slurry Seal. (Convention dated 8th July, 1987) Australia.

511/Cal/88. Agven medical Corporation Limited. Syringe. (Convention dated 25th June, 1987 and 29th January, 1988) both are United Kingdom.

APPLICATIONS FOR PATENTS FILED AT  
THE PATENT OFFICE BRANCH  
MUNICIPAL MARKET BUILDING, THIRD FLOOR  
KAROL BAGH, NEW DELHI-110 005

The 16th May 1988

429/Del/88. Jagdish Chandra Sharma. "Magnetic yoke assembly for a new breed uniaxial sound reproducers".

430/Del/88. Qamar Zafar Hussain. "A typewriter".

431/Del/88. The Director, Central Pulp and paper research Institute. Desilication of bamboo kraft black liquor".

432/Del/88. PPG Industries, Inc. "Low reflectance bronze coating".

433/Del/88. The Firestone tire and rubber company. "Stabilization of guayule-type rubbers".

The 17th May 1988

434/Del/88. Societe Nationale Industrielle Aerospatiale. "Blade for a multi-blade propeller in particular the propeller of a tail rotor of a rotorcraft and process for manufacturing said blade". [Divisional date 12th March, 1984].

435/Del/88. The General Electric Co. P.L.C. "Authenticator". (Convention date 19th May, 1987) (U.K.).

436/Del/88. The General Electric Co. P.L.C. "Data storage system". (Convention date 19th May, 1987) (U. K.).

437/Del/88. The General Electric Co. P.L.C. "Data processing system". (Convention date 19th May 1987) (U. K.).

438/Del/88. Hartmann & Braun Aktiengesellschaft. "Measuring component concentration in a gas blend".

The 19th May 1988

439/Del/88. V. S. Sampangi Naidu. "An automatic empty piri magazine".

440/Del/88. Bhullar Machines Pvt. Ltd., "An overwrapping machine".

441/Del/88. Gurit Essex AG. "A process for the production of a heat-resistant polymeric resin". [Divisional date 12th September, 1985].

442/Del/88. Rohm and Haas Co. "Thermoplastic and thermoset polymer compositions".

443/Del/88. Leo Blackwood & Donna L. J. Blackwood. "Cotton picker lower picker drum cleaner".

444/Del/88. Kevin Ross Inkster & David John Lewis. "Wood working tool". (Convention date 20th May, 1987) (Australia).

445/Del/88. Colgate-Palmolive Company. "Dispenser for products in paste form".

The 20th May 1988

446/Del/88. Malika Dewan & Meenakshi Kumar. "A drawing instrument".

447/Del/88. Yen Wei Hsiung. "Packaging of electrical components". (Convention date 26th May, 1987) (U. K.).

448/Del/88. Uniroyal Chemical Co. Inc. "Process for the selective reduction of 2-quinoxaline-4-oxides".

449/Del/88. Uniroyal Chemical Co. Inc., "Process for the production of 2-quinoxalines".

450/Del/88. Astra-Vent AB. "An air treatment system".

451/Del/88. The Procter & Gamble Co. "Granular detergent composition".

APPLICATIONS FOR PATENTS FILED AT  
THE PATENT OFFICE BRANCH  
61, WALLAJAH ROAD, MADRAS-600 002

The 30th May 1988

370/Mas/88. Agromore Limited. A process for preserving damp biomass for use as an animal feedstuff.

371/Mas/88. American Telephone and Telegraph Company. Optical system. (June 15, 1987; Canada).

The 31st May 1988

372/Mas/88. British Pipeline Agency Limited. STC plc. Pipeline Systems. (June 4, 1987; United Kingdom).

373/Mas/88. British Pipeline Agency Limited. Pipeline Systems. (June 4, 1987; United Kingdom).

374/Mas/88. British Pipeline Agency Ltd. & Kershaw International Ltd. Pipeline systems. (June 4, 1987; United Kingdom).

375/Mas/88. Dana Corporation. Puncturable oil seal.

The 1st June 1988

376/Mas/88. TVS-Suzuki Limited. A pivotless centrifugal automatic clutch.

377/Mas/88. Salford University Civil Engineering Limited. Water powered motor. (June 6, 1987; Great Britain).

378/Mas/88. Metal Box plc. Securing handles to plastic containers. (June 16, 1987; United Kingdom).

The 2nd June 1988

379/Mas/88. Union Carbide Corporation. An improved process for agglomeration ore concentrate utilizing dispersions of polymer binders or dry polymer binders.

380/Mas/88. Ricardo Consulting Engineers PLC. Automatic Gear boxes. (June 2, 1987; United Kingdom).

The 3rd June 1988

381/Mas/88. W. S. Industries (India) Limited. A.C. Sectioning Insulator assemblies.

382/Mas/88. Laboratoires Flork SA. Process for separation of amino acids.

COMPLETE SPECIFICATION ACCEPTED

Notice is hereby given that any person interested in opposing the grant of patents on any of the applications concerned, may, at any time within four months of the date of this issue or within such further period not exceeding one month applied for on Form 14 prescribed under the Patents Rules, 1972 before the expiry of the said period of four months, give notice to the Controller of Patents on the prescribed Form 15, of such opposition. The written statement of opposition should be filed along with the said notice or within one month of its date as prescribed in Rule 3 of the Patents Rules 1972.

„The classifications given below in respect of each specifications are according to Indian Classification and International Classification.”

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CLASS : 116-G. 162901

Int. Cl. : B 65 g 69/28.

LOADING RAMP.

Applicants & Inventors : (1) GRIBORY DMITRIEVICH, OF MOSCOW, ULITSA KRASNOARMEISKAYA, 9, KV. 62 USSR; (2) JURY ALEXANDROVICH YAKOVLEV, OF MOSCOW, ULITSA GEORGIU-DEZHA, 4 KV. 85, USSR; (3) RADY PETROVICH PAPKOVSKY, OF MOSCOW, ULITSA SVOBODY, 81, KORPUS 3, KV. 550, USSR; (4) SERGEI IVANOVICH SUMACHEV, OF MOSCOW, ULITSA OTRADNAYA, 13A, KV. 212, USSR; (5) BORIS NIKOLAEVICH KHORKIN, OF MOSCOW, ULITSA YAKORNAYA, 9, KV. 139 USSR; (6) VALERY VLADIMIROVICH ARKHIPOV, OF MOSCOW, ULITSA, KRASNAYA PRESNYA, 23, KORPUS 1, KV. 184, USSR.

Application No. 27/Cal/85 filed January 15, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

12 Claims

A loading ramp comprising a ramp having one end pivotally connected to a cargo compartment, at least one approach section pivotally connected to the other end of the ramp along the width thereof, and a drive for extension of the ramp out of the cargo compartment and for the retraction of the ramp, the approach section about the hinged joint connecting it to the ramp, disposed on it and connected by one of its members with the approach section.

Compl. Specn. 23 pages.

Drs. 5 sheets.

CLASS : 89; 146-C.

162902

Int. Cl. : G 01 I 23/06.

APPARATUS FOR DETERMINING THE DEFLECTION OF A PRESSURE TRANSDUCER DIAPHRAGM.

Applicant : THE BABCOCK & WILCOX COMPANY, OF 1010, COMMON STREET P. O. BOX 60035, NEW ORLEANS, LOUISIANA 70160, UNITED STATES OF AMERICA.

Inventors : 1. JOHN WILLIAM BERTHOLD III, 2. LARRY ARLISS JEFFERS, 3. LARRY BROWN THOMPSON.

Application No. 134/Cal/85 filed February 23, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

8 Claims

An apparatus for determining the deflection of a pressure transducer diaphragm comprising a light source, means for transmitting the light produced by said light source to the diaphragm at a first location thereon, means for transmitting the light produced by said light source to the diaphragm at a second location thereon, means for coupling said light source to said means for transmitting the light produced by said light source to the first and second locations on the diaphragm said first and second locations being radially offset from one another, means for intercepting the light reflected from said first location on the diaphragm, means for intercepting the light reflected from said second location on the diaphragm, said light reflected from said first and second locations forming interference fringe patterns at their respective intercepting means, and means for counting said interference fringe patterns to produce a determination as to the deflection of the pressure transducer diaphragm.

Compl. Specn. 13 pages.

Drs. 1 sheet.

CLASS : 55-E<sub>1</sub>; 60-X, b.

162903

Int. Cl. : A 61 k 23/00.

PROCESS FOR THE RECOVERY AND PURIFICATION OF RECOMBINANT INTERLEUKIN-2.

Applicant : CFTUS CORPORATION AT 1400 FIFTY-THIRD STREET, EMERYVILLE, CALIFORNIA 94608, UNITED STATES OF AMERICA.

Inventors : 1. KIRSTON EDWARD KOTHS, 2. JAMES WILLIAM THOMSON, 3. MICHTEL KUNITANI, 4. KENNETH WILSON, 5. WOLFGANG HELMUT HANSCH.

Application No. 220/Cal/85 filed March 25, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims

A process for recovering interleukin-2 from a transformed microorganism as herein before defined containing the said interleukin-2 characterized by the steps of (a) a disrupting cell membrane of the microorganism (b) selectively extracting the non-interleukin-2 proteins from the cellular of the disruptate material of step (a) using selective extract which is an aqueous solution of a chotropic agent, (c) solubilizing the interleukin-2 in the extract obtained in step (b) using an organic solubilizing agent aqueous solution having reducing agent therein to obtain a water soluble complex with the said interleukin-2 and (d) recovering the interleukin-2 from said complex in a manner as herein described and optionally after step (d) the product of step (d) is oxidized and the resulting oxidized product is purified by reverse-phase high performance liquid chromatography.

Compl. Specn. 18 pages.

Drs. 4 sheets.

CLASS : 99-H. 162904

Int. Cl. : B 63 d 89/00, 89/08.

SLIDING VALVE FOR CLOSING AN OUTLET OF SUPPLY CONTAINERS FOR BULK MATERIALS DURING ASSEMBLING OPERATIONS.

Applicant : METALLGESELLSCHAFT AKTIENGESELLSCHAFT, OF REUTERWEG 14, D-6000 FRANKFURT AM MAIN, FEDERAL REPUBLIC OF GERMANY.

Inventors : 1. GERHARD MULKA, 2. GERT SCHUSTER.

Application No. 377/Cal/85 filed May 18, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

### 5 Claims

A sliding valve for closing an outlet of supply containers for bulk materials during assembling operations comprising a tubular outlet and a disk gate, which is adapted to be slidably inserted into the stream of bulk material to extend over the cross-section of the outlet, characterized in that the outlet (1) consists of two parts the upper part (3) of the tubular outlet adjoins the supply container (2) and is smaller in cross-section than the lower part (4) of the tubular outlet, which lower part adjoins the upper part (3), supports (5, 5a; 6, 6a) for a disk gate (7) are provided in the lower part (4) and are disposed in the free space (8) above the conical pile (9) formed by the bulk material (11), which slopes at the angle of repose (x) from the lower end (10) of the upper part (3) to the well of the lower part (4), said supports are so arranged that a clearance (12) exists between the upper surface of the disk gate (7) lying on the supports and the lower end (10) of the upper part (3), two mutually opposite slots (13), (14) are provided above the supports (5, 6) and permit the disk gate to be inserted into the supports (5, 6) the disk gate (7) is U-shaped and the length of the two legs (15, 16) of the U-shaped disk gate (7) is so selected that the leading end portions (15a, 16a) of the legs (15, 16) moving through the free space (8) will emerge on the other side of the lower part (4) before the unapertured plate (17) of the disk gate (7) penetrates the bulk material (11).

Compl. Specn. 11 pages.

Drgs. 2 sheets.

CLASS : 195-D. 162905

Int. Cl. : F 16 k 31/00.

### SOLENOID VALVE.

Applicant : SEALED POWER CORPORATION, OF 100 TERRACE PLAZA, MUSKEGON MICHIGAN 49343, UNITED STATES OF AMERICA.

Inventor : 1. CHARLES JOSEPH MULLALLY.

Application No. : 452/Cal/85 filed June 17, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

### 4 Claims

A solenoid valve comprising :

a valve housing (10) including a transverse wall (11), a pole member (15) including a pole piece (15) extending axially inwardly of the housing,

said pole piece (15) having an axial opening (17) therethrough,

said pole piece (15) defining a first conical seat (18), said transverse wall (11) of said housing (10) having an extension (12) and an axial opening (19)

therein aligned with the opening (17) of said pole piece (15), an insert (20) of non-magnetic material positioned in the axial opening (19) of said transverse wall (11) and having an axial opening (34), said insert (20) defining a second seat (21), a ball (22) interposed between the first (19) and second (21) seats and having limited movement between said seats (18, 21).

said axial opening (17) in said pole piece (15) having a narrow portion adjacent the first seat (18), spring means (24, 25) comprising a spring (24) positioned in said axial opening (17) in said pole piece (15) and having a projection (25) yieldingly urged by said spring through said narrow portion of the axial opening (17) and said first seat (18) to yieldingly urge said ball (22) into engagement with the second seat (21),

a coil assembly (28, 29) in said housing (10), a plurality of circumferentially spaced passages (33) in said housing (10) spaced from said insert (20) and extending from adjacent the periphery of the ball (22) through the housing (10) at an acute angle to the axial opening (34) in the axial extension (12) to the periphery of the housing,

such that when fluid is applied to the axial opening (34) in said insert (20) and the coil is de-energized said spring means (24, 25) holds the ball (22) against the second seat (21) and prevents flow through said axial opening (34) in said insert while permitting communication between the angular passages (33) about the ball (22) and first seat (18) through the axial opening (17) in the pole piece (15), and when the solenoid is energized, the ball (22) is drawn toward the first seat (18) to close communication to the axial opening (17) in the pole piece (15) and permit flow from the axial opening (34) in the insert (20) past the second seat (21) and through the circumferentially spaced passages (33) by the insert to the exterior of the axial extension (12).

Compl. Specn. 14 pages.

Drgs. 2 sheets.

CLASS : 187-C<sub>3</sub>.

162906

Int. Cl. : F 15 b 5/00.

### IMPROVEMENTS IN OR RELATING TO PRESSURE TRANSDUCERS.

Applicant : THE BABCOCK & WILCOX COMPANY, AT 1010 COMMON STREET, P. O. BOX 60035, NEW ORLEANS, LOUISIANA 70160, UNITED STATES OF AMERICA.

Inventors : 1. JAMES KENNETH KNUDSEN, 2. ALLEN CURTIS KOLLER, 3. GARY SHIELDS THOMAS, 4. EUGENE SKURATOVSKY.

Application No. 610/Cal/85 filed August 22, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

### 5 Claims

A pressure transducer comprising a body, a sensor beam fixed to the body within a first cavity formed therein, a diaphragm attached to a side of said body over a second cavity in communication with the first cavity, and a shaft assembly connecting the diaphragm and the sensor; characterised in that said shaft assembly comprises a first element attached to said sensor beam, a second element attached to said diaphragm and a rigidifying material connecting said first and second elements.

Compl. Specn. 9 pages.

Drg. Nil.

CLASS : 127-A; 134-B & D; 160-C. 162907

Int. Cl. : F 15 b 5/00; F 15c 3/02; F 16 d 33/00.

ELECTROHYDRAULIC CONTROL OF A SPOOL VALVE FOR ENERGIZING A HEAVE DUTY AUTOMATIC TRANSMISSION CLUTCH.

Applicant : SEALED POWER CORPORATION, OF 100 TERRACE PLAZA MUSKEGON, MICHIGAN 49493, UNITED STATES OF AMERICA.

Inventor : 1. JOHN L. HENDRIXON.

Application No. 644/Cal/85 filed September 11, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 6 Claims

An electrohydraulic control system comprising :

a spool valve including a body having a bore,  
a spool positioned in the bore for reciprocating movement within the bore,

said valve body having an inlet, an outlet and an exhaust port,

an electrohydraulic three-way normally closed pulse width modulated valve having an inlet communicating with the inlet to said valve body and an outlet communicating with one end of said spool,

an electrohydraulic three-way normally closed ON/OFF valve having an inlet communicating with the outlet of said body and an outlet communicating with the other end of said spool.

Compl. Specn. 12 pages.

Drgs. 1 sheet.

CLASS : 116-G. 162908

Int. Cl. : B 65 g 53/00.

APPARATUS FOR FLUIDIZING A PARTICULATE MATERIAL IN A CONVEYING GAS.

Applicant : COMBUSTION ENGINEERING, INC., OF 1000 PROSPECT HILL ROAD, WINDSOR, CONNECTICUT 06095, UNITED STATES OF AMERICA.

Inventor : 1. BARD CLARK TEIGEN.

Application No. 676/Cal/85 filed September 24, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 4 Claims

An apparatus for fluidizing a particulate material for transport in a conveying gas comprising :

- (a) a vertically disposed housing defining a chamber therein;
- (b) a perforated bed support plate having gas flow passages therethrough said bed support plate disposed within said housing so as to extend across said housing thereby dividing said chamber into a gas plenum beneath said bed support plate and a particulate fluidizing plenum above said bed support plate;
- (c) particulate feed means opening into the particulate fluidizing plenum so as to deposit particulate material onto said bed support plate;

(d) gas supply means opening into said gas plenum for conveying pressurized conveying gas to said gas plenum to pass therefrom through the gas flow passages in said bed support plate whereby a portion of the particulate material fed to the fluidizing plenum is fluidized so as to establish a discrete bed of fluidized material adjacent to said bed support plate and a splash zone within said fluidizing plenum above said discrete bed;

(e) a plurality of transport conduits, each penetrating said housing and having an inlet opening into the splash zone for receiving particulate material and conveying gas therefrom and conveying said received particulate material from said housing in the conveying gas; and characterized in that;

(f) orificing nipple means replaceably mounted to the inlet of at least one of said plurality of transport conduits, said orificing nipple means having an inlet opening to the splash zone of the fluidizing plenum and an outlet opening to the inlet of the transport conduits associated therewith, the inlet to said orificing nipple means having a cross-sectional area less than the cross-sectional area of the inlet to the transport conduit associated therewith.

Compl. Specn. 14 pages.

Drgs. 2 sheets.

CLASS : 127-I. 162909

Int. Cl. : F 16 h 25/04.

MINE CONVEYOR OF THE SCRAPER CHAIN TYPE OR BELT TYPE.

Applicant : FLETCHER SUTCLIFFE WILD LIMITED, OF UNIVERSAL WORKS, HORBURY, WAKEFIELD, WF-4 5HR, YORKSHIRE, ENGLAND.

Inventor : 1. LEWIS ROBERT BARNES BOWER.

Application No. 725/Cal/85 filed October 14, 1985.

Convention dated 17th October, 1984 (8426283) G. B.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 27 Claims

A mine conveyor of the scraper chain type or belt type for use in hazardous atmospheres, comprising an endless conveying means; an electric motor; and a torque transmission arrangement located between the electric motor and the endless conveying means the torque transmission arrangement incorporating an input shaft connectable to the electric motor, a wet clutch drivable by the input shaft, an output means of the wet clutch, a torque converter drivable by the output means, at least one torque input disc and at least one torque output disc incorporated in the wet clutch which is engageable under hydraulic control with engagement pressure of the clutch discs being modulated to control the output torque of the clutch between zero and 1% with no clutch slip at full torque output, and with an output from said torque converter in dividing relationship with torque transmission gearing and adapted to make driving relationship with the endless conveying means; and an intrinsically safe control system for controlling the torque transmission arrangement, the system comprising an electro-hydraulic control circuit and being pre-programmable as to a conveyor ramp start-up mode, running mode and a stop mode, at least one transducer included in the electro-hydraulic control circuit to monitor at least one condition of the conveyor, the transducer(s) being electrically connected into the control system to relay electrical signals in accordance with the condition monitored; and valve means also incorporated in the electro-hydraulic control circuit, the valve means being adapted to control the supply of pressure fluid to effect clutch modulation and thereby the ramp starting mode and stopping mode of the conveyor.

Compl. Specn. 20 pages.

Drgs. 3 sheets.



Applicant : COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH RAFI MARG, NEW DELHI-110 001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventor : RAVINDRA SINGH THAKUR, SREEPADA BHANOJEE RAO, JONNALAGADDA RAJAGOPALA RAO, KULAMANI PARIDA AND BHARAT RAM-KRISHNA SANT.

Application for Patent No. 105/Del/85 filed on 11th February, 1985.

Complete Specification left on 06 May, 1986

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

#### 6 Claims

A process for the simultaneous preparation of sodium vanadate and zeolite which comprises heating a mixture of vanadium containing sludge and silica both in the powder form at a temperature in the range of 900°C to 1010°C and extracting the reaction mass with water by known methods.

Compl. Specn. 6 pages.

Provl. Specn. 3 pages.

CLASS : 87 B & 128 J.

162913

Int. Cl. : A 61g 7/00 & 7/04.

#### CARRIER FOR SUPPORTING A USER THEREON AND FOR CHANGING THE POSTURE OF THE USER.

Applicant & Inventor : HARUSHIGE TANIGUCHI, A JAPANESE CITIZEN, OF 4-432 IKEBUKURO, TOSHIMA-KU, TOKYO, JAPAN.

Application for Patent No. 108/Del/85 filed on 11th February, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

#### 16 Claims

A carrier for supporting a user thereon and adapted for changing a posture of the user from a supine position to a prone position and vice versa, which carrier comprises :

a first support means for normally carrying thereon the user resting at a supine or prone position, said first support means being rotatable;

at least one second support means pivotably mounted to one side of said first support means, said second support means being pivotable to overlie and sandwich the user when changing the posture of the user and being rotatable together with said first support means to transfer the user from said first support means to said second support means; and

drive means connected to said first or second support means for rotating said first and second support means together to transfer the user from said first support means to said second support means.

Compl. Specn. 18 pages.

Drgs. 8 sheets.

CLASS . . . . . 162914

Int. Cl. : F 16 D 13/60 & 69/00

METHOD FOR THE MANUFACTURE OF A NON-ASBESTOS CLUTCH FACING.

Applicant : FERODO LIMITED, A BRITISH COMPANY, OF 20 ST. MARY'S PARSONAGE, MANCHESTER, M3 2NL, ENGLAND.

Inventor : JOHN DAVID HARDING AND KEITH DAVID DOLBEAR.

Application for Patent No. 140/Del/85 filed on 20th February, 1985.

Convention date 3rd March, 1984/No. 8405645/(U. K.).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

#### 6 Claims

A method for the manufacture of a non-asbestos clutch facing which comprises mixing reinforcing fibers of the kind such as herein described and curable binder material of the kind such as herein described and optionally, friction and wear modifiers of the kind such as herein described forming a preform comprising said mixture in the rough shape of a clutch facing, heating and pressing said preform to compress it without substantially curing the binder material and consolidate preform to an actual density where the facing product is premeable to air and completing cure of the binder by heating under conditions of pressure such as to not cause any substantial further change in actual density.

Compl. Specn. 14 pages.

Drgs. 2 sheets.

CLASS :

162915

Int. Cl. : F24B 11/00 13/00, 5/00.

A DEVICE FOR ATTACHMENT TO DOMESTIC OVENS FOR CLEAN AND EFFICIENT COMBUSTION OF SOLID FUELS.

Applicant : COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH RAFI MARG, NEW DELHI-110 001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventor : MANOJ MOHAN SEN, SAMIRENDU GUPTA, PHANINDRA CHANDRA TALAPATRA, BARUN DAS GUPTA.

Application for Patent No. 268/Del/85 filed on 28th March, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

#### 2 Claims

A device for attachment to domestic ovens for clean and efficient combustion of solid fuels comprising three concentric chambers (1, 8, 11) formed by placing three concentric shells (2, 6, 10) one inside the other, the innermost (1) and intermediary chambers (8) having perforations (3, 7) on the walls, the innermost chamber (1) open at the top and closed at the bottom by a dome shaped cover plate (4) having perforations (5) to allow entry of coal volatiles and partly burnt combustibles gases released from an oven, the bottom cover plate (4) extending on both sides so as to cover the bottom face of intermediary chamber, the top of this intermediary chamber being covered by a top cover plate (9) the outermost chamber being closed at the top and the bottom (12, 13) the top cover plate of the outermost chamber having lugs to provide support for cooking vessel to be placed on it and having a circular ring (15) having slots (16) to provide space for the lugs of the coal fired oven when

the attachment is placed on top of the oven the outermost shell having a row of circular openings (17) at its bottom and a row of air pipes (18) above the row of circular openings to permit entry of secondary air for combustion and also fixed thereto at its top end with a handle, (21) the top of the innermost chamber having a reflector plate (19) with perforations (20) to help ignition of the combustible gases and also to allow easy escape of combustion gases leaving the chamber.

Compl. Specn. 10 pages.

Drgs. 1 sheet.

CLASS : 84A, B&C & 164C.

162916

Int. Cl. : C101 5/46, 1'00 & 3/00.

**"APPARATUS FOR THE HANDLING AND TREATMENT OF MUNICIPAL SOLID WASTE".**

Applicant & Inventors : EARL WAYNE HALL, OF 161 SUNNYSIDE AVENUE, NORRISTOWN, PENNSYLVANIA 19401, UNITED STATES OF AMERICA AND WILLIAM JAMES LOVE, OF 219 DECATUR STREET, DOYLESTOWN, PENNSYLVANIA 18901, UNITED STATES OF AMERICA, BOTH U. S. CITIZENS.

Application for Patent No. 166/Del/85 filed on 27th February, 1985.

Convention date 1st March, 1984/25193/84/(Australia).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

**24 Claims**

Apparatus for the handling and treatment of municipal solid waste formed of a plurality of constituent components prior to said waste being pyrolyzed in a heating unit, said apparatus comprising :

shredding means for shredding said municipal solid waste to produce a flow of shredded waste having a predetermined maximum dimension;

shredded waste discharge means connected to said shredding means for conveying said flow of shredded waste away from said shredding means;

flow splitter means connected to said waste discharge means for splitting and conveying said flow of shredded municipal solid waste along a plurality of flow paths;

a plurality of baling means for converting said flow of shredded waste into bales provided respectively at the end of each of said flow paths;

bale holding means connected to said baling means for holding said converted bales of shredded waste; and

bale supply means in combination with said bale holding means for supplying aid bales at a predetermined, substantially constant rate to said heating unit for pyrolysis thereof.

Compl. Specn. 54 pages.

Drgs. 2 sheets.

CLASS : 129 J.

162917

Int. Cl. : B21b 1/00.

**AN IMPROVED SINGLE STRAND BLOCK-TYPE ROLLING MILL.**

Applicant : MORGAN CONSTRUCTION COMPANY A CORPORATION ORGANISED UNDER THE LAWS OF THE COMMONWEALTH OF MASSACHUSETTS, UNITED STATES OF AMERICA, OF 15 BELMONT STREET, WORCESTER, MASSACHUSETTS 01605, UNITED STATES OF AMERICA.

2—167 GI/88

Inventors : HAROLD ERNEST WOODROW & RAYMOND LUDRICK SMOLA.

Application for Patent No. 204/Del/85 filed on 12th March, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

**8 Claims**

A single strand block-type rolling mill having successive pairs of oppositely inclined work rolls arranged to roll products such as bars or rods in a twist-free manner, comprising :

a vertically upstanding structural member joined to an underlying horizontal base plate to form an inverted "T" shaped cross section, said structural member extending beneath and in parallel relationship to the rolling line;

a plurality of rib members extending laterally away from and spaced along said structural member on opposite sides thereof, said rib members being joined on edge to both said structural member and said base plate and having upper support edges;

a plurality of gear housings successively arranged along the rolling line, said gear housings having lower portions alternately arranged on opposite sides of said structural member, each gear housing being carried on and secured to the upper support edges of an adjacent pair of said rib member, said gear housings each containing a line shaft segment with a driving bevel gear which meshes with a driven bevel gear on one of a pair of intermediate drive shafts, said intermediate drive shafts carrying intermeshed gears;

roll packages carried by said gear housings each roll package having a pair of roll shafts carrying a pair of said work rolls, said roll shafts having gears which mesh with the gears on said intermediate drive shafts;

conventional means for interconnecting the line shaft segments on opposite sides of said structural member; and

primary drive means at one end of said structural member for driving said interconnected line shaft segments.

Compl. Specn. 11 pages.

Drgs. 2 sheets.

CLASS : 129 G.

162918

Int. Cl. : B21c 23/14.

**"AN IMPROVED METHOD OF MANUFACTURING A LIGHT METAL ARTICLE BY SQUEEZE FORMING".**

Applicant : GKN TECHNOLOGY LIMITED, A BRITISH COMPANY, OF BIRMINGHAM NEW ROAD, WOLVERHAMPTON, WEST MIDLANDS WV4 6BW, ENGLAND.

Inventors : JOHN BARLOW & DAVID BALDWIN ROGERS.

Application for Patent No. 219/Del/85 filed on 15th March, 1985.

Convention date 7th April, 1984/8409044/(U. K.).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

## 10 Claims

An improved method for manufacturing by squeeze forming a light metal article which does not require extensive subsequent machining wherein molten metal is introduced into the mould part of a squeeze forming press, the mould is closed under pressure to displace molten metal to fill a cavity in the mould and the metal is maintained under pressure whilst solidification thereof takes place, the mould subsequently being opened and the formed article removed characterized in that prior to the introduction of molten metal into the mould a compacted soluble salt core comprised of a salt such as herein defined having a shape necessary for imparting the required shape to the resulting squeeze formed article and retains its integrity under the conditions of sustained temperature and pressure transmitted thereto by the metal during the squeeze forming operation and a reinforcement insert such as herein described adjacent said core are provided within the mould cavity of said mould to form a required shape of the squeeze formed article with re-inforcement in the metal matrix of the article extending to at least part of a boundary of said shape; the core subsequently being dissolved from the squeeze formed article by a solvent such as herein defined.

Compl. Specn. 17 pages.

Drgs. 3 sheets.

CLASS : 176 I.

162919

Int. Cl. : F 16b 7/08 &amp; E 02b 3/16.

## IMPROVED TRANSITION SEAL DEVICE.

Applicant : THE BABCOCK & WILCOX COMPANY, OF 1010 COMMON STREET, P. O. BOX 60035, NEW ORLEANS, LOUISIANA 70160, UNITED STATES OF AMERICA.

Inventor : KURT HANS HALLER, AND RAYMOND GERALD KIDALOSKI.

Application for Patent No. 266/Del/85 filed on 28th March, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

## 7 Claims

An improved transition seal device for sealingly connecting a casing to a fluid-cooled membrane wall of a vapor generator, the membrane wall being of the type having a plurality of parallel, laterally spaced tubes and a plurality of membrane bars disposed between and welded to adjacent tubes to define a wall surface with longitudinally extending circumferential surfaces and intervening planar surfaces, comprising an elongated plate edge welded gas-tight to the membrane wall and welded gas-tight to the casing, the plate comprising a lengthwise edge having a plurality of arcuate saddles and protrusions formed in alternate succession along said edge each of said saddles overlapping a circumferential portion of one of the tubes.

Compl. Specn. 11 pages.

Drg. 1 sheet.

CLASS : 24B.

162920

Int. Cl. : B60t 1/06.

## "A DISC BRAKE IN COMBINATION WITH WHEEL".

Applicant : URBAN TRANSPORTATION DEVELOPMENT CORPORATION LTD., A CORPORATION ORGANIZED UNDER THE LAWS OF CANADA, OF 2 ST. CLAIR AVENUE WEST, 8TH FLOOR, TORONTO ONTARIO, CANADA M4V 1L7.

Inventor : ROY EDWARD SMITH.

Application for Patent No. 143/Del/85 filed on 20th February, 1985.

Convention date 12th March, 1984/449348/(Canada).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005

## 6 Claims

A disc brake in combination with a wheel having a hub, a rim and a web comprising

a disc engaged with a brake pad; composed of plurality of annular segments, each segment having a leading edge, a trailing edge, a radially inner edge and a radially outer edge,

each segment having abutment means adjacent its leading and trailing edge, and in contact with web of the wheel,

said wheel having a flange adjacent its rim spaced from its web and projecting radially toward said hub for engaging at least one retention tang,

fastening means for fixing each segment to the wheel and

said retention tang projecting between the web and flange of the wheel when said segment is fastened in place, the retention tang being radially spaced from the rim and engaging the flange so that said segment can freely expand radially away from the hub under the effect of heat generated during braking but may not move axially with respect to said web.

Compl. Specn. 16 pages.

Drgs. 2 sheets.

CLASS :

162921

Int. Cl. : B 43 k 7/00 &amp; 7/12.

## PEN.

Applicant & Inventor : FMILIO AMBASZ, AT 295 CENTRAL PARK WEST, NEW YORK, NEW YORK 10024, UNITED STATES OF AMERICA.

Application No. 85/Cal/86 filed February 2, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 14 Claims

A pen having an elongated one-piece barrel having substantially rigid tip end and head end portions, a writing tip affixed at the distal end of the tip end portion, and a substantially rigid tubular cap member telescopically received over the tip end portion of the barrel characterized in that the barrel includes an integral flexible portion intermediate the tip end and head end portions, whereby the barrel can be bent at the flexible portion, in that the cap is movable along the barrel between (1) a retracted position in which it overlies part of the tip end portion and substantially all of the flexible portion, thus leaving the writing tip exposed and rendering the pen substantially rigid, and (2) an extended position in which it covers the writing tip and leaves the flexible portion exposed, thus protecting the writing tip and rendering the pen flexible, and in that the cap and the tip end portion of the barrel include means for releasably retaining the cap member in each of the retracted and extended positions.

Compl. Specn. 17 pages.

Drgs. 1 sheets.

CLASS : 116-G.

162922

Int. Cl. : B 65 g 35/00.

APPARATUS FOR DISCHARGING FREE-FLOWING AND VISCOUS MATERIALS FROM A BELT CONVEYOR.

Applicants : VSESOUJZNY INSTITUT PO PROEKTIROVANIJU ORGANIZASII ENERGETICHESKOGO STROTT ELSTVA "ORGENERGOSTROI", OF VARSKHOE SHOSSE, 17 MOSCOW, USSR.

Inventors : 1. ROBERT SEMENOVICH TILLES, 2. SERGEI SERGEEVICH NENAKHOV, 3. VITALY VIKTOROVICH SAVINYKH.

Application No. 131/Cal/86 filed February 20, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 6 Claims

An apparatus for discharging free-flowing and viscous materials from a belt conveyor, comprising a frame mounted at the discharge end of the conveyor supporting a discharge roll and a guide means mounted downstream the discharge roll, and a feed funnel-like means secured under the guide means and having a tubular guide member secured thereto and made in the form of a hollow cylinder having one end thereof connected to the feed funnel-like means, wherein the tubular guide member is made with a longitudinally extending cut, the extremities of the cut being provided with means for interconnecting the extremities of the cut, the means for interconnecting the extremities of the cut being capable of disconnecting the extremities of the cut when the load thereon becomes greater than a predetermined value.

Compl. Specn. 16 pages.

Drgs. 3 sheets.

CLASS : 128-K.

162923

Int. Cl. : A 61 b 17/00.

#### DEVICE FOR FORMATION OF TUNNEL IN RETROSTERNUM SPACE.

Applicants : VSESOUJZNY NAUCHNO-ISSLEDOVATELSKY I ISPYTATELNY INSTITUT MEDITSINSKOI TEKHNIKI, OF ULITSA KASATKINA, 3, MOSCOW, USSR.

Inventors : 1. YAROSLAV PETROVICH KULIK, 2. MARINA NARTSISOVNA VYRZHIKOVSKAYA.

Application No. 216/Cal/86 filed March 18, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 5 Claims

A device for formation of a tunnel in the retrosternal space, comprising a rod rigidly secured to a handle and featuring a distal end and a proximal end both said ends being bent in one plane; said distal end of said rod being made as a hook bent inward, whose tip is smoothly joined to a flat spring, while said distal end of said rod is provided with a slot intended to accommodate said spring.

Compl. Specn. 10 pages.

Drg. 1 sheet.

CLASS : 162924

Int. Cl. : A 61 k 7/04.

#### METHOD FOR PREPARING A NAIL ENAMEL COMPOSITION.

Applicants : RIVOLON, INC., AT 767 FIFTH AVENUE, CITY AND STATE OF NEW YORK, UNITED STATES OF AMERICA.

Inventor : 1. RICHARD W. SCHNETZINGER.

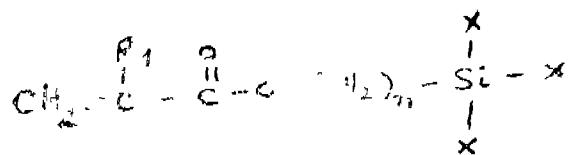
Application No. 298/Cal/86 filed April 17, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 12 Claims

A method for preparing a nail enamel composition comprising mixing a film-former to an organic solvent system such as herein-before described and optionally adding thereto conventional additive(s) characterised in that said film-former comprising a copolymer resulting from the polymerization of

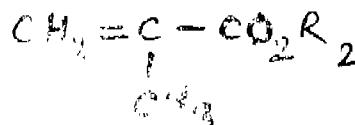
(1) 1 to 30% by weight of at least one siloxanyl ester monomer of the formula I of the accompanying drawings,



Formula I

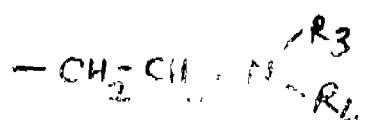
wherein each X is  $\text{OCH}_3$ ,  $\text{OCH}_2\text{CH}_3$ ,  $\text{OCH}_2\text{CH}_2\text{CH}_3$ , or a phenyl group,  $\text{R}_1$  is methyl or hydrogen; and n is an integer from 3 to 18;

(2) 1 to 90% by weight of at least one methacrylate monomer of the formula II wherein  $\text{R}_2$  represents a linear or



II

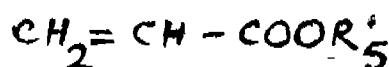
branched alkyl radical having up to 18 carbon atoms, or the radical IIa wherein  $\text{R}_3$  and  $\text{R}_4$  represent an alkyl or hydroxy-



IIa

alkyl group having from 1 to 4 carbon atoms; and

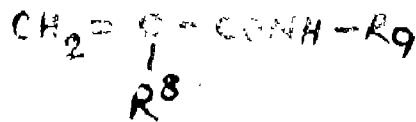
(3) 1-90% by weight of at least one acrylate monomer of the monomer of the formula III wherein  $\text{R}_5$  represents a



III

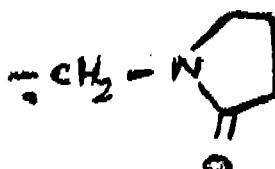
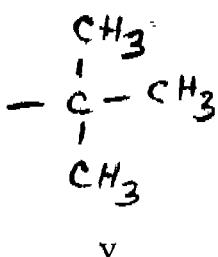
linear or branched alkyl radical having up to 18 carbon atoms, or an aralkyl radical having from 7 to 16 carbon atoms, or an heteroalkyl group having from 1 to 18 carbon atoms wherein the carbon chain is interrupted by an O, D or S atom, and optionally,

(4) 1 to 20% by weight of a monomer which is N-vinylpyrrolidone or an acrylamide or methacrylamide of the formula VI in which  $\text{R}_8$  represents  $\text{H}$  or  $\text{CH}_3$  and  $\text{R}_9$  represents



R8

IV

H-CH<sub>2</sub>-OH, formula V or VI.

VI

Compl. Specn. 18 pages. Drg. 1 sheet.

Class.

Int. Cl. C 22 b 26/12. 162925

## PROCESS AND APPARATUS FOR PURIFYING LITHIUM.

Applicant : METAUX SPECIAUX S.A. TOUR MANHATTAN, LA DEFENSE 2, 5, 6 PLACE DE L'IRIS-92087, PARIS LA DEFENSE (FRANCE).

[Inventor : 1. RAYMOND ROUMIEU.

Application No. 310/Cal/86 filed April 21, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 8 Claims

A process for the purification of lithium characterised by agitating the bath formed by the lithium to be purified which was melted in an inert atmosphere, selectively evaporating the impurities at a temperature of between 400 and 700°C under a pressure of lower than 10 Pascal, and condensing them at a temperature of lower than 100°C.

Compl. Specn. 10 pages. Drg. 1 sheet.

CLASS : 9-A &amp; F. 162926

Int. Cl. : C 22 c 1/00 &amp; 21/00.

## METHOD FOR REFINED ALUMINIUM-SILICON ALLOY OF EUTECTIC COMPOSITION FROM IRON AND TITANIUM IMPURITIES.

Applicants : 1. DNEPROPETROVSKY METALLURGICHESKY INSTITUT IMENI L. I. BREZHNEVA, OF DNEPROPETROVSK, PROSPEKT GAGARINA, 4, USSR; 2. DNEPROVSKY ALJUMINIEVY ZAVOD IMENI S. M. KIROVA, OF ZAPOROZHIE JUZHNOE SHOSSE, USSR.

Inventors : 1. BORIS IVANOVICH EMLIN, 2. DMITRY VLADIMIROVICH ILIINKOV, 3. ALEXANDER VLADIMIROVICH VENTSKOVSKY, 4. ALEXANDER NIKOLAEVICH MOROZOV, 5. GENNADY ANUFRIEVICH GOLOVKO, 6. VIKTOR PAVLOVICH STREMEDLOVSKY, 7. BORIS OTTOVICH VAISMAN.

Application No. 311/Cal/86 filed April 21, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 5 Claims

A method of refining an aluminium-silicon alloy of eutectic composition from iron and titanium impurities consisting in fusing the aluminium-silicon alloy of eutectic composition with chromium and manganese, cooling the obtained melt down to 590—660°C and filtering the cooled melt within the above-stated temperature interval, the amount of chromium and manganese being used in such quantities that their mass sum relates to the mass sum of iron and titanium impurities as (0.2—1.1) : 1 at a mass relation of chromium to manganese equal to (0.1—20) : 1.

Compl. Specn. 35 pages.

Drg. Nil.

CLASS : 15-D.

162927

Int. Cl. : F 16 c 33/00.

## METHOD OF PRODUCING PLAIN BEARING SHELL WITH SHOCK-ABSORBING ANTI-FRICTION COATING.

Applicants : 1. CHEBOXARSKY ELEKTROMEKHANI-CHESKY ZAVOD ZAPASNYKH CHASTEI "ENERGO-ZAPCHAST", OF CHEBOXARY, SKLADSKOI PROEZD, 1, USSR; AND 2. KUIBYSHEVSKY AVIATSIONNY INSTITUT IMENI AKADEMIKA S. P. KOROLEVA, OF KUIBYSHEV, ULITSA MOLODOGVARDEISKAYA 151, USSR.

Inventors : 1. IURY IVANOVICH BAIBORODOV, 2. ANATOLY NIKOLAEVICH EZHOV, 3. DAVID SHMULEVICH KODNIR, 4. EVGENY VASILIEVICH LITVINOV, 5. JURY ALEXFEVICH MANENKOV, 6. VLADIMIR ALEXEEVICH MORSKOV, 7. IGOR BORISOVICH POKROVSKY, 8. ALEXANDR GENNADIEVICH SERGEEV.

Application No. 375/Cal/86 filed May 19, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 3 Claims

A method of producing a plain bearing shell with shock-absorbing anti-friction coating consisting in placing a blank in the form of a compressed tangle of metal wire helices into a die, overlaying said blank with a sheet of fluoroplastic of a shape corresponding to the outline of the inner cavity of the die in plan, heating said blank together with said fluoroplastic sheet to 220—260°C, punching said blank together with said fluoroplastic sheet under a pressure of 100—150 MPa with a time delay of 4—6 min so as to form a shell with shock-absorbing anti-friction coating, cooling said shell with the shock-absorbing anti-friction coating.

Compl. Specn. 13 pages.

Drgs. 2 sheets.

CLASS : 6-B<sub>3</sub>.

162928

Int. Cl. : B 01 d 35/00.

## STEPPED PLENUM SYSTEM.

Applicants : ENVIRONMENTAL ELEMENTS CORPORATION, OF P. O. BOX 1318, BALTIMORE, MARYLAND 21203, UNITED STATES OF AMERICA.

Inventor : 1. ROBERT W. TISON.

Application No. 419/Cal/86 filed June 5, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 20 Claims

A stepped plenum system for substantially equalizing flow rate of a fluid through a plurality of longitudinally displaced outlet conduits, comprising :

- (a) an inlet conduit extending in said longitudinal direction having a substantially constant inlet cross-sectional flow area defining a first flow region;
- (b) at least a first outlet conduit in fluid communication with said inlet conduit; and,
- (c) at least a second outlet conduit in fluid communication with said inlet conduit, said second outlet conduit being longitudinally displaced from said first outlet conduit and defining a second flow region therebetween, said second flow regions having a substantially constant cross-sectional flow area in said longitudinal direction and less than said inlet cross-sectional flow area.

Compl. Specn. 34 pages.

Drgs. 2 sheets.

CLASS : 85-J.

162929

Int. Cl. : F 27 D 7/00.

## TUYERE STOCK FOR BLAST-FURNACE.

Applicant : METALLURGICAL & ENGINEERING CONSULTANTS (INDIA) LIMITED (A GOVERNMENT OF INDIA UNDERTAKING), AT DORANDA, RANCHI-834 002, BIHAR, INDIA.

Inventors : 1. SHANTI RAM DAS 2. VIJAY BEHARI LAL.

Application No. 551/Cal/86 filed July 22, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 12 Claims

A tuyere stock for blast furnace comprising a passageway without any sharp bends, adapted to be communicated in totally leak proof manner between the main bustle pipe and the tuyere of the blast furnace, said passageway being constituted by a number of fabricated tubular elements having internal refractory lining, and said elements being joined to each other by bolted flange joints with sealing means in-between, a compensator, consisting of at least two sets of multi-bellow expansion joints securely connected by a straight tubular connecting piece, being provided in line with the passageway for taking care of any axial, lateral and/or angular movement of the tuyere stock, and flexible sealing arrangement being provided at the joint(s) between the said compensator and the adjoining tubular element(s) of the passageway for aiding in the said axial, lateral and/or angular movement in leak proof manner.

Compl. Specn. 12 pages.

Drgs. 2 sheets.

CLASS :

162930

Int. Cl. : B 01 j 25/02.

PROCES FOR PRODUCING RANEY NICKEL CATALYST FOR SELEKTIYE HYDROGENATION OF ANTHRAQUINONIFS.

Applicants : GOSUDARSTVENNY NAUCHNO-ISSLEDOVATELSKY INSTITUT KHMII I TEKHNOLOGII ELEMENTOORGANICHESKIKH SOEDINENY "GNIKHTEOS", OF SHOSSE ENTUZIASTOV, 38, MOSCOW, USSR.

Inventors : 1. NIKOLAI VLADIMIROVICH PAVLOV, 2. VALENTIN LEONARDOVICH CHERNYAVSKY, 3. MARK MIKHAILOVICH VEVIOROVSKY, 4. PAVEL IVANOVICH FILIMONOV, 5. VASILY NIKIFOROVICH SLASCHININ, 6. BORIS ALEXEEVICH SELYAKOV, 7. FEDOR IVANOVICH TEMERIN.

Application No. 593/Cal/1986 filed August 4, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 3 Claims

A process for producing a Reney nickel catalyst for a selective hydrogenation of anthraquinones at carbonyl groups in the production of hydrogen peroxide comprising leaching of aluminium from a nickel-aluminium alloy containing 30 to 70% by mass of nickel by means of a 20—50% aqueous solution of an alkali at a temperature of from 30 to 70°C, residence of the resulting suspension of Reney nickel in the aluminate solution at its boiling temperature, separation of the aluminate solution from particles of Reney nickel, washing said particles of Reney nickel with water and a heat-treatment thereof at a temperature of from 130 to 140°C in an organic solvent employed as a medium in hydrogenation of anthraquinones in the production of hydrogen peroxide.

Compl. Specn. 14 pages.

Drg. Nil.

CLASS : 63F, 133A.

162931

Int. Cl. : HO2 k 23/00.

A DIRECT CURRENT SELF-EXCITED MOTOR IMMUNISED OR PROTECTED AGAINST ALTERNATING CURRENTS INDUCED HEREIN BY OR LEAKING FROM CABLES IN THE VICINITY.

Applicant & Inventor : NARENDER KUMAR GOEL AND CHANDRA PRAKASH GUPTA, INDIAN NATIONALS, RESEARCH DESIGNS AND STANDARDS ORGANISATION, MINISTRY OF RAILWAYS, MANAK NAGAR, LUCKNOW-226 011.

Application for Patent No. 772/Del/83 filed on 22nd November, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

## 6 Claims

A direct current self-excited motor immunised or protected against alternating currents as hereinbefore stated characterised in that the field winding of the motor is split into two parts and a separate full wave rectifier is connected in series in the circuit of each said part of the field winding.

Compl. Specn. 9 pages.

Drg. 1 sheet.

CLASS : 37-A.

162932

Int. Cl. : B 03 B 5/52.

"IMPROVED SPLITTER DEVICE FOR DIVIDING FLOW OF PARTICLES OF SLURRY DESCENDING A SPIRAL SLUICE OF A SEPARATOR".

Applicant : MINERAL DEPOSITS LIMITED, A COMPANY INCORPORATED UNDER THE LAWS OF THE STATE OF NEW SOUTH WALES COMMONWEALTH OF AUSTRALIA, OF 81 ASHMORE ROAD, SOUTHPORT, 4215, QUEENSLAND, AUSTRALIA.

Inventor : PHILIP JOHN GIFFARD.

Application for Patent No. 962/Del/84 filed on 27th December, 1984.

Convention date 9th January, 1984/PG 3112/(Australia).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

## 12 Claims

An improved splitter device for dividing flow of particles or slurry descending a sluice of a spiral separator, said device comprising a splitter blade having an upstream working edge, and means supported by said spiral separator above the sluice floor for mounting the blade with a lower end of the working edge in contact with and movable cross the width of the sluice floor of the separator in which the device is located, said mounting means for adjustably changing the position of contact of said working edge by translation movement along a path extending between a radially outer and a radially inner part of the sluice floor to vary the width of the flow being divided by the splitter device.

Compl. Specn. 9 pages.

Drgs. 2 sheets.

CLASS : 65B<sub>2</sub>

162934

Int. Cl. HO1f 27/00.

## "AN ELECTRIC IGNITER".

Applicant : IMPERIAL CHEMICAL INDUSTRIES PLC., A BRITISH COMPANY OF IMPERIAL CHEMICAL HOUSE, MILLBANK, LONDON, SW1P 3JF, ENGLAND.

Inventor : ALAN GEORGE KING.

Application for Patent No. 180/Del/85 filed on 5th March, 1985.

Convention date 25th April, 1984/8410518/(U. K.).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

CLASS : 162933

Int. Cl. : B01D 33/22, 46/00.

## AN IMPROVEMENT MADE TO ROTARY VACUUM FILTERS HAVING A HORIZONTAL FILTRATION PLANE.

Applicant : PRAYON DEVELOPMENT S.A., OF 144, RUE JOSEPH WAUTERS, B-4130 ENGIS, BELGIUM, A BELGIUM COMPANY.

Inventor : LAURENT ARMAND DAVISTER AND FRANCOIS GEORGES MARTIN.

Application for Patent No. 179/Del/85 filed on 5th March, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

## 9 Claims

Rotary vacuum filter having a substantially horizontal filtration plane comprising circular members fixed together by radial connecting arms carrying filter elements by means of bearings, said circular members rotating on rollers secured to a base and a distributor collecting and distributing the fluids coming from said elements, said distributor comprising essentially a distributing head and a collecting base sliding relative to one another in a cyclic movement, the collecting base having at least one compartment and communicating with one or more suction and discharge devices for the gases located above said collecting base and communicating with the lower part of said collecting base for the liquids, the distributing head incorporating, to match each of said filter elements, cavities which, during said cyclic movement, open in succession opposite each of said at least one compartment, so that, during each said cycle, each said filter element is successively put in communication with each said compartment, characterised in that said collecting base is a fixed collecting base composed of a single generally cylindrical tank, said distributing head, head having cavities in communication with the various filter elements, the said fixed collecting base being located underneath the said distributing head, a gas separation chamber being provided in the upper central portion of said fixed collecting base, said gas separation chamber having at least one pipe discharging the gases separated from the filtrates and an annular space in said collecting base delimited by an outer wall of said collecting base and an inner wall thereof, said annular space being in the upper portion of the said fixed collecting base so as to convey substantially vertically into the latter the filtrates arriving via mouth of said cavities connected to said filter elements, said inner wall being at a sufficient distance from upper level of the filtration liquid of the corresponding compartment to allow the separation of the gases during the vertical fall of the liquid in said fixed collecting base.

Compl. Specn. 18 pages.

Drgs. 6 sheets.

6 Claims

An electric igniter comprising :

a transformer having a magnetically permeable core, a primary circuit connected to a source of A. C. energy and a secondary circuit;

an ignition element connected to said secondary circuit; and

characterised in that at least one magnet is provided for applying a steady magnetic field within at least a portion of said core, the intensity of said steady magnetic field within said core being sufficiently strong to prevent effective transmission of electrical energy from said primary circuit to said secondary circuit for firing the ignition element.

Compl. Specn. 10 pages.

Drgs. 3 sheets.

CLASS : 187 A.

162935

Int. Cl. : HO4q 1/04.

## TELEPHONE HOOK SWITCH.

Applicant : STANDARD TELEPHONES AND CABLES PUBLIC LIMITED COMPANY, A BRITISH COMPANY, OF 190 STRAND, LONDON WC2R 1DU, ENGLAND.

Inventor : PETER JOHN BAINS.

Application for Patent No. 218/Del/85 filed on 15th March, 1985.

Convention date March 17, 1984/8407019/(U. K.).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

## 3 Claims

A telephone hook-switch which comprises a base assembly on which the hook-switch contacts are mounted a hook-switch lever which is substantially T-shaped in side view, support means for the hook-switch lever on the base assembly, with one-end of the cross-piece of the T of said lever pivotally mounted on said support means, and a hook-switch member on the base assembly which in the on-hook condition is held non-operated by the handset against the urging of spring means, wherein when the telephone which includes the arrangement is in the on-hook condition the hook-switch member permits the depression of the other end of the cross-piece of the T, wherein a pin on the leg of the T is adjacent to one of the hook-switch contacts, wherein there is a spring strip integral with the cross-piece, wherein said spring strip extends across the leg of the T and engages a fixed portion of the base assembly, and wherein when the handset is off-hooked the lever rotates about its pivot against the urging of the spring strip to close the hook-switch contacts via said pin, which rotation of the lever occurs under the influence of the spring means associated with the hook-switch member.

Compl. Specn. 6 pages.

Drgs. 2 sheets.

CLASS : 85 J.

162936

Int. Cl. : H 05b 7/00.

## ELECTRODE FOR ELECTRIC-ARC BUILDING-UP.

Applicant : KIEVSKY POLITEKHNIKHSKY INSTITUT IMENI 50-LETIA VEI IKOI OKTYABRSKOT SOTSIATISTICHESKOI RIVOI JUTSII, OF BREST-LITOVSKY, PROSPEKT, 39, KIEV. U. S. S. R. AN INSTITUTE ORGANISED UNDER THE LAWS OF USSR.

Inventor : NIKOLAI ANTONOVICH GORPENJUK, SEMEN BORISOVICH KOZLOV, VLADIMIR SEMENOVICH BOGACHEV, VALENTIN NIKOLAEVICH GORPENJUK AND BORIS NIKOLAEVICH GORPENJUK.

Application for Patent No. 236/Del/85 filed on 20th March, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

## 2 Claims

An electrode for electric-arc building up comprising a core of low-carbon steel and a covering including marble, fluorspar, graphite, ferrochrome, ferromolybdenum, ferrovanadium, ferrotitanium, ferrosilicon, ferrromanganese, mica, cellulose and soda, characterized in that the components of the covering are taken in the following proportions, in % by weight :

marble	18—25,
fluorspar	11—18
graphite	2.5—3,
ferrochrome	12.5—15,
ferromolybdenum	25—30
ferrovanadium	8—10
ferrotitanium	5—6,
ferrosilicon	4.2—5,
ferromanganese	0.7—1.2
mica	0.5—1.5,
cellulose	0.5—1.5,
soda	0.4—0.6.

Compl. Specn. 14 pages.

CLASS :

162937

Int. Cl. : C08 F 7/00 &amp; 19/00

## A PROCESS FOR THE PREPARATION OF A BLEND OF POLYVINYL CHLORIDE AND ACRYLONITRILE BUTADIENE STYRENE COPOLYMER.

Applicant : SHRI RAM INSTITUTE FOR INDUSTRIAL RESEARCH, 19, UNIVERSITY ROAD, DELHI-110 007, INDIA. AN INDIAN INSTITUTE.

Inventors : UPENDRA KUMAR SARROP, NEERAJ KUMAR GUPTA & KRISHNA KUMAR JAIN.

Application for Patent No. 242/Del/85 filed on 22nd March, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

## 4 Claims

A process for the preparation of a blend of polyvinyl chloride and acrylonitrile butadiene styrene copolymer which has a content of 10 to 50% of butadiene which process comprises in adding polyvinyl chloride to the said copolymer in the ratio of 10 : 90 to 90 : 10, at a temperature of from 70 to 90°C so that the said copolymer does not absorb any moisture and thereafter extruding the mixture at a temperature of between 150 to 180°C.

Compl. Specn. 6 pages.

CLASS : 98 I

162938

Int. Cl. : F24j 3/02.

## "IMPROVED SOLAR COOKER"

Applicant : DR HARISH CHANDRA AGARWAL, PROFESSOR, DR. PRASHANT KUMAR, ASSISTANT PROFESSOR, BOTH OF DEPARTMENT OF MECHANICAL ENGINEERING, INDIAN INSTITUTE OF TECHNOLOGY KANPUR, AND PROFESSOR SRINIVASA SAMPATH, DIRECTOR, INDIAN INSTITUTE OF TECHNOLOGY, KANPUR-208 016, INDIA, ALL INDIAN NATIONALS.

Inventors : HARISH CHANDRA AGARWAL, PRASHANT KUMAR & SRINIVASA SAMPATH.

Application for Patent No. 508/Del/85 filed on 28th June, 1985.

Complete specification left on 30th June, 1986

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005

## 5 Claims

An improved solar cooker comprising a box having its bottom and side walls insulated against heat losses, the top face of the box fitted with a glazing plate consisting of two parallel glass plates having placed in-between the glass plates a plurality of glass tubes placed in parallel and touching each other longitudinally, each glass tube is sealed at its both ends and air evacuated from the sealed tubes and mirror strips are fixed at all the four sides of the glazing plate making an angle of 120° with the glazing plate to reflect the solar rays onto the glazing plate.

Prov. Specn. 4 pages

Drg. 1 sheet.

Compl. Specn. 7 pages

Drg. 1 sheet.

CLASS : 5 D

162939

Int. Cl. : A01c 11/00

## "AUTOMATIC PADDY SEEDLINGS TRANSPLANTING MACHINE".

Applicant : AWADHESH KUMAR SHARMA, S/o. SHRI JAMUNA PRASAD SHARMA, QUARTER NO. 694/G, D.L.W. COLONY, VARANASI, UTTAR PRADESH INDIA. INDIAN NATIONAL.

Inventor : AWADHESH KUMAR SHARMA.

Application for Patent No. 661/Del/85 filed on 14th August, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005

## 8 Claims

An automatic paddy seedlings transplanting machine which consists of a frame having mounted at its one end two trays for carrying paddy seedlings to be transplanted, on the other end of the frame being mounted a crankshaft,

a plurality of tongs mounted on the crankshaft, a 'pick-up' cam being mounted on the crankshaft to control the functioning of the tongs, an 'up-down' cam being mounted on the crankshaft to move up and down the trays carrying the paddy seedlings, a spring loaded plate being provided in each said tray which pushes the paddy seedlings towards the crankshaft, the crankshaft being connected to a propeller shaft which in turn is adapted to be connected to the pulley shaft of a tractor.

Compl. Specn. 8 pages. Drgs. 5 sheets. CLASS : 63F, 133A. 162940

Int. Cl. : HO2 k 23/00.

A D. C. SELF-EXCITED MOTOR.

Applicant & Inventor : NARENDRA KUMAR GOEL AND CHANDRA PRAKASH GUPTA, INDIAN NATIONALS, RESEARCH DESIGNS AND STANDARDS ORGANISATION, MINISTRY OF RAILWAYS, MANAK NAGAR LUCKNOW-226 011.

Application for Patent No. 559/Del/86 filed on 25th June 1986.

Divided out of application for Patent No. 772/Del/83 filed on 22nd November, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

8 Claims

A direct current self-excited motor immunised or protected against alternating currents as hereinbefore stated characterised by a full wave rectifier connected in series with the armature winding of the motor.

Compl. Specn. 10 pages. Drg. 1 sheet. CLASS : 129-E & H. 162941

Int. Cl. : F 16 L 9/00, 9/18.

METHOD OF MANUFACTURING A PRESTRESSED TUBULAR MEMBER.

Applicant : THE BABCOCK & WILCOX COMPANY, AT 1010 COMMON STREET, P. O. BOX 60035, NEW ORLEANS, LOUISIANA 70160, UNITED STATES OF AMERICA.

Inventors : 1. RICHARD L. HOLBROOK, 2. DEAN L. MAYER.

Application No. 1047/Cal/83 filed August 29, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

7 Claims

A method of manufacturing a prestressed tubular member having at least one inner tube positioned within an outer tube and connected to the outer tube at least two spaced locations along the length of the tubular member comprising reducing the diameter of the outer tube so as to permanently elongate the outer tube while elastically stressing the inner tube whereby a tensile prestress is applied to the inner tube and a compressive prestress is applied to the outer tube.

Compl. Specn. 10 pages. Drg. 1 sheet. CLASS : 172-C, 5 & 9. 162942

Int. Cl. : D 01 g 21/00.

A SPINNING WORKS PREPARATORY PLANT.

Applicant : TRUTZSCHLER GMBH & CO. KG., DUVENSTRASSE 82-92 D-4050 MONCHENGLADBACH 3, FEDERAL REPUBLIC OF GERMANY.

Inventors : 1. FRITZ HOSEL, 2. FERDINAND LEIFELD.

Application No. 1119/Cal/83 filed September 13, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

14 Claims

A spinning works preparatory plant comprising a bale opener, a carding machine and other machines together making up a plurality of machine groups, each group including one or more machines : an electronic processor for controlling the operation of the plant,

a plurality of means for measuring variables related to the fibre material to be passed through the machines and/or related to operation of parts of the machines themselves, each machine group being associated with at least one respective measuring means which is connected to the electronic processor, and

a plurality of variable speed drives for driving respective operational parts of the bale opener, the carding machine and other parts of the plant at speeds varied according to output signals from the electronic processor, the output signals being generated as a result of comparisons in the electronic processor of signals from the measuring means representing values of the measured variables with desired values, wherein a desired value for a variable measured in one machine group is arranged to be calculated in dependence upon the measured value of a variable measured in a different machine group.

Compl. Specn. 23 pages.

Drgs. 3 sheets.

CLASS : 73; 74 & 155-B & E. 162943

Int. Cl. : D 01 h 1/00, 3/00, 5/00.

A NONWOVEN FABRIC HAVING HIGH LOFT REGIONS IMMEDIATELY ADJACENT DENSIFIED PATTERNED REGIONS.

Applicant : CHICOPEE, 317 GEORGE STREET, NEW BRUNSWICK, NEW JERSEY, UNITED STATES OF AMERICA.

Inventors : 1. CHARLES JAMES SHIMALLA 2. ALFRED THOMAS MAYS.

Application No. 1188/Cal/83 filed September 27, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

3 Claims

A nonwoven fabric having high loft regions immediately adjacent densified patterned regions, said fabric comprising at least 15 percent conjugate fibers such as herein described having a low melting point component and another component of a higher melting point such as herein described, and said densified patterned regions comprising deformed and compacted conjugate fibers in only the patterned regions.

Compl. Specn. 7 pages.

Drg. 1 sheet.

CLASS : 17-E; 40-B & 55-F. 162944

Int. Cl. : C 12 n 11/00, 11/02.

A PROCESS FOR PREPARING MODIFIED IMMOBILIZED MICROBIAL CELLS OR IMMOBILIZED ENZYME FOR USE IN FERMENTATION.

Applicant : K. F. ENGINEERING CO., LTD., OF 6-1, OHTEMACHI 1-CHOME, CHIYODA-KU, TOKYO, JAPAN.

Inventors : 1. HIROSHI TAKADA, 2. YUJIRO HARA, 3. TATSUJI SEKI, 4. YASUHISA YAMASHITA, 5. MIKUTO IKEDA.

Application No. 1398/Cal/83 filed November 15, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 1 Claim

A process for preparing immobilized microbial cells or immobilized enzymes of varying specific gravity for its obtaining in a fluidised state in a culture fluid during fermentation characterised in that a solid ingredient is added to carrier material solution or to mixture of carrier material solution and living microbial cells or enzymes or to culture fluid during immobilization of living cells or enzymes of known type, said solid ingredient being not adversely affecting the fermentation or the step of immobilization the nature and amount of said solid ingredient required to obtain necessary fluidized state being determined according to the operating conditions of the fermentation, the composition of the culture media and the kind of immobilization agent used.

Compl. Specn 12 pages.

Drg. Nil.

CLASS : 6-B<sub>2</sub>; 40-F, H & I.

162945

Int. Cl. : G 01 n 25/34.

## TEMPERATURE-ACTUATED FLOW CONTROL DEVICE.

Applicant : THE BABCOCK & WILCOX COMPANY, OF 1010 COMMON STREET, P. O. BOX 60035, NEW ORLEANS, LOUISIANA 70160, UNITED STATES OF AMERICA.

Inventor : 1. GEORGE ROBERT HALL II.

Application No. 104/Cal/84 filed February 15, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 6 Claims

A temperature-actuated fluid flow control device comprising :

a fluid inlet;

an exhaust line for the fluid connected to said fluid inlet;

means for inducing flow of fluid into said fluid inlet and out said exhaust line;

a switching chamber located between said fluid inlet and said exhaust line;

a bi-metallic flexible element disposed in said switching chamber and being flexibly responsive to temperature change to move between a first flexed position wherein the element stops the flow of fluid between said fluid inlet and said exhaust line and a second flexed position opening flow between said fluid inlet and said exhaust line; and

said switching chamber being larger than said bi-metallic element to make said bi-metallic element free-floating in said switching chamber.

Compl. Specn. 11 pages.

Drgs. 3 sheets.

CLASS : 15-C &amp; D.

162946

Int. Cl. F 16 c 17/16.

## AIR BEARING BODY.

Applicant : WYLER AG., OF IM HOLDEDLI, WINTERTHUR, SWITZERLAND.

Inventor : 1. SIEGFRIED THEODOR STAUBER.

Application No. 210/Cal/84 filed March 30, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

3—167 GI/88

## 9 Claims

An air bearing body, comprising

an planar bearing surface having a center portion and an outer periphery;

an air supply aperture opening on said center portion of said bearing surface; and

a plurality of shallow air circulation ducts opening on said bearing surface, said ducts extending along spiral paths from and in fluid communication with said aperture, each of said ducts have a transverse cross sectional configuration with a relatively low height in a direction perpendicular to said bearing surface

Compl. Specn 9 pages.

Drg. 1 sheet.

CLAS 152-E &amp; F

162947

Int Cl .C 08 d 9/00, 13/00, 13/28.

## VULCANIZABLE HALOGEN CAOUTCHOUC COMPOSITION AND PROCESS FOR PRODUCING THE SAME

Applicant DEGUSSA AKTIENGESELLSCHAFT OF 6000 FRANKFURT AM MAIN, WEISSFRAUENSTRASSE 9, FEDERAL REPUBLIC OF GERMANY

Inventors 1. SIEGFRIED WOLFF, 2. HEINZ GREWATTA 3. WOLFGANG BUDER

Application No 338/Cal/84 filed May 16, 1984

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 4 Claims

Vulcanizable halogen caoutchouc composition containing at least one known halogen caoutchouc, a known silicate filter and optionally a known halogen silane characterized in that said composition contains at least one isothiuronium compound of the formula (1) of the accompanying drawings.

in quantities of 0.1 to 5 parts by weight, with reference to 100 parts by weight of halogen caoutchouc, where

x— chloride, bromide or iodide

m . a number from 2 to 6

R<sup>1</sup> : a C<sub>1</sub>-C<sub>5</sub>-alkyl group, a C<sub>5</sub> or C<sub>6</sub>-cyclo-alkyl or the phenyl group,R : a C<sub>1</sub>- to C<sub>5</sub>-alkyl Group, a C<sub>5</sub> or C<sub>6</sub> cycloalkyl group the  $\beta$ -methoxy-ethyl Group, the phenyl or benzyl group,

n . 0, 1 or 2

R<sup>3</sup>, R<sup>4</sup>, R<sup>5</sup>, R<sup>6</sup>, same or different, hydrogen, a C<sub>1</sub>-C<sub>5</sub>-alkyl Group, or R<sup>3</sup>, R<sup>5</sup> hydrogen, R<sup>4</sup>, R<sup>6</sup>, same or different, hydrogen, a C<sub>5</sub>-C<sub>6</sub>-cycloalkyl group, the phenyl, the benzyl group, or R<sup>4</sup> and R<sup>6</sup> an interconnected C<sub>2</sub>-C<sub>4</sub>- alkylene chain, and optionally known softeners and other known filters

Compl. Specn 25 pages Drg 1 sheet.

CLASS : 28-E.

162948

Int. Cl. : F 23 c 3/00 5/00.

## A BURNER FOR SUPPLYING FUEL AND AIR TO A FURNACE INCLUDING COAL-FIRED FURNACE.

Applicant : COMBUSTION ENGINEERING, INC., OF 1000 PROSPECT HILL ROAD, WINDSOR, CONNECTICUT, UNITED STATES OF AMERICA.

Inventor : ROMAN CHADSHAY.

Application No. 410/Cal/84 filed June 14, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 6 Claims

A burner for supplying fuel and air to a furnace including coal-fired furnace comprising :

- (a) a fuel supply conduit extending along a longitudinal axis and having an outlet opening into the furnace for admitting fuel to the furnace;
- (b) a cylindrical air supply conduit disposed coaxially about said fuel supply conduit so as to define therebetween an annular flow passage having an outlet for passing a flow of air into the furnace;
- (c) means for controlling the cross-sectional area for the outlet of said annular flow passage, said means comprising a plurality of flaps pivotally mounted inside said cylindrical air supply conduit so as to extend radially inwards across said annular flow passage; and
- (d) positioning means operatively associated with each of said flaps for controllably pivoting each of said flaps so as to selectively position each of said flaps across said annular flow passage thereby permitting the cross-sectional area of the outlet of said annular flow passage to be selectively increased or decreased whereby the velocity of the air flow passing into the furnace from said annular flow passage is controlled.

Compl. Specn. 13 pages.

Drgs. 2 sheets.

CLASS : 128-F.

162949

Int. Cl. : A 61 m 5/00.

## DEVICE FOR ADMINISTERING POWDERED SUBSTANCES INTO HUMAN ORGANISM.

Applicants : (1) VSESOJUZNY NAUCHNO-ISSLEDOVATELSKY INSTITUT MEDITSINS KIKH POLIMEROV, OF NAUCHNY PROZD, 10, MOSCOW, (2) MOSKOVSKY NAUCHNO-ISSLEDOVATESKY INSTITUT TUBERKULEZA, OF ULITSA DOSTOEVSKOGO, 4, MOSCOW, USSR, (3) BELGOROD-DNESTROVSKY ZAVOD MEDITSINS KIKH IZDELYIZ POLIMERNYKH MATERIALOV, OF BELGOROD-DENSTROVSKY ODESSKOI OBLASTI USSR.

Inventors : 1. NIKOLAI MIKUALILOVICH SHISHOV, 2. VLADIMIR EVGENIEVICH ZELENETSKY, 3. NADEZHDA ALEXEEVNA DEMINA, 4. IVAN MIKHAILOVICH BONDAREV, 5. ALEXANDR NIKOLAEVICH CHERNY, 6. EVGENY EVLAMPIEVICH RYLOV, 7. ANATOLY GRIFORIEVICH AVSENTIEV, 8. VALERY ALEXEEVICH MOSKVITIN.

Application No. 418/Cal/84 filed June 16, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 9 Claims

A device for introducing powdered drugs into deeplying cavities of the human organism, comprising a powder nozzle which is a piston-type injection means series-connected to a conduit composed of a trocar tube and a catheter which are arranged coaxially in relation to each other, the injection means comprising a piston with a valve and a cylindrical housing having a valve and a diametrically arranged partition with a hole, which partition divides the injection means into an injection unit and a nozzle unit which accommodates a powdered drug container with a clearance allowed between the nozzle unit and the powdered drug container which has an orifice on the side of the conduit which is coaxial with the powdered drug container and connected to the nozzle unit by means of a catheter holder which comprises a cylindrical housing with a partition and a cap whereto each carries a bush with an orifice coaxial with the conduit so that the catheter can be connected to the outlet of the nozzle unit of the injection means and to the trocar tube.

Compl. Specn. 18 pages.

Drgs. 3 sheets.

CLASS : 40-F &amp; H.

162950

Int. Cl. : B 01 d 53/00.

## A MODULAR PRESSURE SWING TONNAGE ABSORPTION APPARATUS FOR SEPARATING MIXTURES OF GASES INTO COMPONENT PARTS.

Applicant : GREENE &amp; KELLOGG INC., OF 290 CREEKSIDE DRIVE, TONAWANDA, NY 14215, UNITED STATES OF AMERICA.

Inventor : 1. NORMAN RICHARD MCCOMBS.

Application No. 534/Cal/84 filed July 28, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 21 Claims

A modular pressure swing tonnage absorption apparatus for separating mixtures of gases into component parts said apparatus being made substantially entirely of a plurality of prefabricated modules comprising :

- a first module including at least one gas absorption means for effecting the gas separation;
- a second module including a surge tank for collecting one component gas separated out of said gas mixture by said first module;
- a third module including means for delivering the gas mixture to said first module and for conducting waste gas away from said first module;
- a fourth module including means for transferring said one component gas away from said first module to said second module, and for directing gas to said first module for purging said first module;
- electrically operated control means associated with at least one of said first through fourth modules;
- means for pneumatically, electrically and mechanically interconnecting said first, second, third and fourth modules and said electrically operated control means, whereby said apparatus may be moved as individual modules to or from a site for PSA use, and assembled onsite by mechanically, pneumatically and electrically interconnecting said components to thereby produce a relatively large such unit adapted to produce relatively large quantities said one component gas;
- said means mechanically interconnecting said modules comprising flange means and said first, second, third and fourth modules being of dimensions sufficient to handle large enough quantities of said mixtures of gases to produce said large quantities of said one component of said gas on the order of tons per day of said one component gas.

Compl. Specn. 21 pages.

Drgs. 2 sheets.

CLASS : 63 B &amp; 129 G &amp; M. 162951

Int. Cl. : H 01 f 5/00, 41/00 &amp; H 02 k 3/00 &amp; 15/00.

## "A PUNCH AND WINDING MACHINE".

Applicant : CARD-MATIC PTY. LIMITED, A COMPANY INCORPORATED UNDER THE LAWS OF THE STATE OF NEW SOUTH WALES, OF 18, ARGYLE STREET, SYDNEY, NEW SOUTH WALES, 2000, AUSTRALIA.

Inventor : LOUIS STANLEY.

Application for Patent No. 526/Del/83 filed on 2nd August, 1983.

Convention date 4th August, 1982/PP 5208; 21st October, 1982/PP 6450 23rd December, 1982/PP 7432 & 31st March, 1983/PP 8709/(Australia).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 6 Claims

A punching and winding machine for manufacturing a core for a rotor or stator of an axial flux induction electric machine, the punching and winding machine comprising a frame, a punching assembly mounted on the frame to receive a strip and punch holes therein at predetermined intervals along the strip as the strip is drawn therethrough so that the holes form radially extending slots on a radial face of the core, a winding assembly to receive the punched strip and wind the strip about an axis transverse of the strip to form the core, said punching assembly having punch means to punch a first and a second deformation in a trailing portion of the strip said punch means being shaped to form the first deformation as a first securing tab and the second deformation as a first securing hole, a control means co-ordinating the punch assemblies and winding assembly so that the slot holes in said strip form radially extending slots in said core, and so that the first and second deformations are longitudinally spaced along said strip by a predetermined distance to thereby radially align said securing tab with said securing hole so as to pass therethrough, and securing tab deformations means located adjacent said winding assembly to engage said securing tab as it projects through said securing hole, to bend said securing tab as it projects through said securing hole, to bend said securing tab back along the strip to thereby bind together the two radially outer coils of the core to inhibit relative movement.

Compl. specn. 23 pages.

Drgs. 19 sheets

CLASS : 206 E, 186 E &amp; 146 D. 162952

Int. Cl. : H 01 q 15/02 &amp; H 04 n 5/26.

## "APPARATUS FOR ENHANCING IMAGE RESOLUTION".

Applicant : HUGHES AIRCRAFT COMPANY A COMPANY ORGANISED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, UNITED STATES OF AMERICA, OF 200 NORTH SEPULVEDA BOULEVARD, EL SEGUNDO, CALIFORNIA 90243, UNITED STATES OF AMERICA.

Inventors : ROBERT ZWIRN, EDWARD JAMES DRAGAVON & BRIAN SMITHGALL.

Application for Patent No. 8/Del/84 filed on 3rd January, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 6 Claims

An apparatus for enhancing image resolution having an imager which views a scene through an aperture which has a point spread function and means responsive to said imager for generating successive frames of video data words constituting a first sampling rate, means for converting said video

data words into a synthesized video frame of video data words, said synthesized video frame constituting a higher sampling rate than said first sampling rate, said converting means connected to said responsive means; means for enhancing the resolution of the image represented by said synthesized video frame connected to said converting means, said enhancing means comprising; means for convolving said synthesized video data words with said point spread function to generate a video data word corresponding to a twice-blurred image, said convolving means connected to said converting means; means for subtracting said twice-blurred image video data word from a corresponding one of said synthesized video data words to obtain a video data word corresponding to a degradation estimate, said subtracting means connected to said converting means and said convolving means; means for adding said degradation estimate video data word and said corresponding one of said synthesized video data words to obtain an enhanced image video data word, said adding means connected to said converting means and said subtracting means.

Compl. specn. 18 pages.

Drgs. 6 sheets

CLASS : 206 E, 186 E &amp; 146 D. 162953

Int. Cl. : H 01 q 15/02 &amp; H 04 n 5/26.

## "APPARATUS FOR ENHANCING IMAGE RESOLUTION".

Applicant : HUGHES AIRCRAFT COMPANY, A COMPANY ORGANISED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, UNITED STATES OF AMERICA, HAVING A PRINCIPAL PLACE OF BUSINESS AT 200 NORTH SEPULVEDA BOULEVARD, EL SEGUNDO, STATE OF CALIFORNIA, UNITED STATES OF AMERICA.

Inventor : ROBERT ZWIRN.

Application for Patent No. 9/Del/84 filed on 3rd January, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 6 Claims

An apparatus for enhancing image resolution having an imager which views a scene through an aperture which has by a point spread function and means responsive to said imager for generating successive frames of video data words constituting a first sampling rate,

means for converting said video data words into a synthesized video frame of video data words said synthesized video frame constituting a higher sampling rate than said first sampling rate, said converting means connected to said responsive means; for generating successive frames;

means for enhancing the resolution of the image represented by said video frame connected to said converting means;

a plurality of image primitives, each of said image primitives constituting a matrix of video data words;

means for convolving each of said image primitives with said point spread function to generate a set of blurred image primitives said convolving means connected to said converting means;

means for computing the correlation between each of said blurred image primitives and each small segment of said synthesized video frame and detecting a peak correlation therefrom;

a memory for storing a mosaic of selected image primitives; and

means responsive whenever said correlation means detects a two dimensional peak correlation between a particular one of said blurred image primitives and one of said segments of said synthesized video frame, for writing a particular one of the blurred ones of said image primitives into said image primitive mosaic storage memory at a location corresponding to the original location of said particular synthesized video frame segment in said synthesized video frame.

Compl. specn. 21 pages.

Drgs. 7 sheets

CLASS : 131.

162954

Int. Cl. : E 21 b 43/00.

## AN APPARATUS FOR THE CONSTRUCTION OF A DRILLED WELL.

Applicant &amp; Inventor : ENDRE PALFFY, OF H-8300 TAPOLCA, JUHASZ GYULA UTCA 47/c, HUNGARY.

Application for Patent No. 972/Del/84 filed on 31st December, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 8 Claims

An apparatus for the construction of a drilled well which comprises a casing string having a uniform diameter along its length and fitted with a screen set section, at least one open-hole packer, a cementing valve and a sand-intake valve each connected to said casing string, a plurality of holes located on the cylindrical jacket of said casing string, said holes being spaced apart from each other and corresponding to said open-hole packer, said cementing valve and said sand-intake valve, a pressure-transfer device positionable connected to said open-hole packer, said sand-intake valve and said cementing valve for selectively activating said open-hole packer, said sand intake valve and said cementing valve, said pressure transfer device having at least two inner elastic pipes which confine and close off a given section of said casing string, a pressure pipe having a smaller diameter than that of said casing string and being connected to said inner elastic pipes and a source of pressure conveying means, said pressure pipe being closed at the bottom by means of a closing means, said inner elastic pipes being separated from each other to define an inner cavity therebetween and being selectively expendable against the inner surface of said casing string a plurality of pressure holes passing through said pressure pipe and located below said inner elastic pipes with at least one pressure hole fitted with a check valve being located between said inner elastic tubes, said screen set section of said casing string consisting of a screen pipe having larger openings than the largest grain size of the fluid bearing strata of a bore hole through which said apparatus is intended to be installed for well production, a plate tube having longitudinally protruding slots being located adjacent said screen pipe, and a spiral wire located between said slots, said screen section being confined by a protector ring on both the top and the bottom thereof.

Compl. specn. 34 pages.

,Drgs. 9 sheets

CLASS : 50 D.

162955

Int. Cl. : F 25 b 31/02.

## DUAL SPEED MOTOR-COMPRESSOR FOR A REFRIGERANT APPARATUS.

Applicant : NECCHI SOCIETA PER AZIONI.

Inventor : BAR ALFREDO.

Application for Patent Office No. 50/Del/85 filed on 23rd January, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 3 Claims

Dual speed motor-compressor for a refrigerant apparatus characterised in that said motor has multiplex polarities comprising a first polarity consisting of parallel start and main windings connected to a power source through a control switch and a second polarity consisting of a further main winding only also connected to said power source through said control switch, said control switch being dependent on temperature in said refrigerant apparatus so as to switch the motor from the first polarity to the second polarity.

Compl. specn. 7 pages.

Drg. 1 sheet

CLASS : 27 I.

162956

Int. Cl. : E 04 h 7/22.

## A SILO COMPRISING A STRUCTURE COMPOSED OF ASSEMBLED MODULAR ELEMENTS.

Applicant : S. A. CHAUDRONNERIE VIRY ET FILS, OF ZONE INDUSTRIELLE, 88190 GOLBEY, FRANCE.

Inventor : BERNARD VIRY.

Application for Patent No. 97/Del/85 filed on 7th February, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 15 Claims

A silo comprising a structure composed of assembled modular elements characterised in that each said element consists of a smooth sheet metal to one side of which are welded ribs for reinforcing and rigidifying said element, each said reinforcing rib having a predetermined thickness proportional to the dimension of the element, there being a predetermined spacing between two successive ribs depending on the height of said element, said element forming a panel of wall of the structure and wherein said ribs are provided on the external side of said wall panel.

Compl. specn. 14 pages.

Drgs. 6 sheets

CLASS : 103.

162957

Int. Cl. : C 23 g 5/00.

## A METHOD OF CONVERTING GREASE INTO NON-STICKY HYDROCARBON.

Applicant : STEIN HEURTEY, OF Z. A. I. DU BOIS DE, 'Epine, 91130 RIS ORANGIS, FRANCE.

Inventor : ROBERT WANG.

Application for Patent No. 284/Del/85 filed on 4th April, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 6 Claims

A method of converting grease into a non-sticky hydrocarbon comprising first heating the grease at a temperature of between 350° and 700° C in an enclosure and then providing a gaseous atmosphere in said enclosure which chemically reacts with the grease to form non-sticky hydrocarbon, said gaseous atmosphere consisting essentially of a gaseous mixture of nitrogen and hydrogen enriched with water steam.

Compl. specn. 8 pages.

Drg. 1 sheet

162958

Int. Cl. : F 16 D, 3/58, 3/76.

## "ELASTOMERIC SHEAR SHAFT COUPLING".

Applicant : RELIANCE ELECTRIC COMPANY, A CORPORATION ORGANISED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, U. S. A., OF P. O. BOX 499, GREENVILLE, STATE OF SOUTH CAROLINA, UNITED STATES OF AMERICA.

Inventor : HOLMES ALLEN DOWNEY.

Application for Patent No. 305/Del/85 filed on 11th April, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 13 Claims

An elastomeric shear shaft coupling for connecting two rotatable shaft members (12) in end-to-end relationship, said coupling comprising :

- (a) annular coupling hubs (16) for mounting on the opposed ends of the shafts;
- (b) a generally circular element (50) of elastomeric material extending between said hubs and said element having a body portion (51) having laterally extending right and left margins for contacting said hubs, said body portion having a portion of substantially parabolic cross-sectional shape;
- (c) a bead (80) of elastomeric material, with a higher durometer value than that of the body, of said element, disposed within each of said margins;
- (d) reinforcing plies (60) of fabric material disposed within said body portion in spaced layers, concentrated near the centroid of the said body portion and terminating on each side in the proximity of said beads;
- (e) clamping means (44, 46, 52, 54) retaining said margins in place against said hubs; and
- (f) fastening means (56) securing said clamping means and said element to said hubs.

Compl. specn. 17 pages.

Drgs. 2 sheets

CLASS : 144 E.4./

162959

Int. Cl. C 09 d 5/14.

**A PROCESS FOR THE PREPARATION OF COPOLYMER OF METHYL METHACRYLATE AND TRIBUTYLtin METHACRYLATE.**

Applicant : THE CHIEF CONTROLLER RESEARCH & DEVELOPMENT, MINISTRY OF DEFENCE, GOVERNMENT OF INDIA, NEW DELHI (INDIA), AN INDIAN NATIONAL.

Inventor : PRAMII CHANDRA DEB, AND BIKASH CHANDRA CHAKRABORTY.

Application for Patent No. 406/Del/85 filed on 15th May, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 5 Claims

A process for the preparation of copolymer of methyl methacrylate and tributyltin methacrylate, for use in the preparation of an antifouling paint which comprises in dissolving polymethyl methacrylate in sulphuric acid to cause a reaction to obtain a hydrolysed polymer which is washed and then dried said hydrolysed polymer being esterified with tributyltin oxide in a mixture of toluene and xylene to obtain said copolymer.

Compl. specn. 9 pages.

CLASS : 89.

162960

Int. Cl. : G 01 N 11/10.

**VISCOSITY COMPARATORS FOR DETERMINING VISCOSITY OF OILS OR THE LIKE LIQUIDS AT SITE.**

Applicant & Inventor : AIDAL PRASAD GUPTA, H-35, SOUTH EXTENSION PART-1, NEW DELHI-110049, (AN INDIAN NATIONAL).

Application for Patent No. 688/Del/85 filed on 21st August, 1985.

Appropriate office for opposition proceedings (Rule 4, Patent Rule 1972) Patent Office Branch, New Delhi-110005.

## 1 Claim

Pocket Viscosity Comparator for quickly determining viscosity of lubricating oils or like liquid at site, directly in centistokes at 40° C, irrespective of ambient test temperature, operating on principle of comparing Test oil with a standard oil, consisting of three parallelly placed glass tubes fixed on a common base, the Central Tube being equipped with syringe like E & G arrangement to draw the oil under test through a nozzle D fixed at one end; the other two tubes each on either side of the said central tube carrying a lighter, and higher viscosity oil for purpose of comparison; the base of the said comparator being provided with a measuring scale F calibrated in centistocks at 40° C, the said two outer tubes each being provided with standardised oils and hermetically sealed containing an air bubble; all three tubes containing Steel Spheres adopted to travel through the oil when said Comparator is inclined.

Compl. specn. 3 pages.

Drgs. 1 sheet

**OPPOSITION PROCEEDINGS**

An Opposition entered by Research Designs & Standards Organisation to the grant of a Patent on application No. 149163 as notified in Gazette of India, Part III Section 2, dated 31-7-82 the opposition has been dismissed and Patent application No. 149163 shall be sealed.

**CLAIM ON FORM 10 U/S 20(i) OF THE PATENTS**

**ACT, 1970**

In pursuance of leave granted under Section 20(1) of the Patents Act, 1970 application No. 158863 of ICI Australia Limited has been allowed to proceed in the name of ICI Australia Limited and Weedstreet Mines Limited.

**PATENTS SEALED**

151747	158756	159516	159517	159519	160212	160218
160219	160236	160238	160244	160256	160274	160279
160354	160357	160359	160360	160368	160371	160425
160428	160549	160550	160552	160553	160554	160555
160536	160557	160558	160559	160560	160561	160562
160563	160565	160567	160570	160571	160572	160576
160577	160579	160582	160585	160586	160588	160589
160591	160593	160616	160635	160653	160705	160714
160721	160726	160733	160734	160735	160736	160738
160749	160753	160754	160760	160768	160769	160770
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160861	160862	160877	160893	160908	160957	160974
161064	161149	161150	161158	161168	161329	161369
161370	161371					

**REGISTRATION OF ASSIGNMENTS**

**LICENCES, Etc.**

**(PATENTS)**

Assignments, Licences or other transactions affecting the interest of the original Patentees have been registered in the following cases.

The number of each case is followed by the name of the parties claiming interests—

156701	Bryant & May Limited.
143949	Lucas Industries Public Limited Company.
156855	Jai Durga Industries.
153150	H.V.A. Water Contractors B.V.
153089	Cameron Iron Works Inc.

151301	lauener Engineering Ltd.
151740	
146716	Nigu Chemic GmbH & Co
149429	Satvic Electric Controls Private Limited.
151162	Mrs. Ashvini Avinash Ranade.
149239	Lucas Industries Public Limited Company
150265	J

## RENEWAL FEES PAID

142535	143319	143338	143432	143546	143909	144673
144792	145147	145453	145594	145616	145768	145873
145993	146057	146111	146524	146666	147004	147445
147696	147730	147745	148113	148853	148939	149181
149389	149558	149966	149993	150025	150161	150209
150648	150696	150991	151140	151346	151351	151396
151639	151709	151872	151873	151949	152016	152111
152158	152327	152380	152690	152895	152929	152930
153044	153140	153478	153707	154042	154043	154045
154167	154214	154216	154437	154438	154474	154523
154709	154787	154790	154833	154897	155167	155246
155632	155690	155763	156002	156167	156168	156185
156264	156281	156328	156336	156346	156547	156560
156644	156698	156804	156827	156921	156927	157198
157208	157381	157922	157978	158188	158227	158228
158293	158385	158408	158720	158763	158826	158920
158921	159053	159075	159175	159193	159235	159241
159247	159248	159511	159512	159521	159524	159525
159570	159579	159598	159604	159633	159976	159978
160049.						

## REGISTRATION OF DESIGNS

The following designs have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Designs Act, 1911.

The date shown in the each entry is the date of registration of the design included in the entry.

Class 1. No. 159076. Roberto Morello, an Italian National of Via Vespucci, 7 Arbizzano (Verona-Italy). "Visual Information Container". 1st December, 1987.

Class 1	No 159150 Jencorp Nominees Limited, a Company incorporated under the laws of the State of New South Wales, of 109 Pitt Street Sydney, New South Wales 2000, Australia "a Roof truss chord Section" Reciprocity date is 12th June, 1987 (Australia)
Class 3	Nos 159083 & 159085 Lego A/S, a Danish Company, of Aastvej 1, DK 7190 Billund, Denmark "a Toy Building Element" 2nd December, 1987.
Class 3	No 159096 Lego A/S, a Danish Company, of Aastvej 1 DK 7190 Billund, Denmark, "a Caravan" 2nd December, 1987.

Class 3 No 159099 Lego A/S, a Danish Company, of Aastvej 1 DK 7190 Billund, Denmark, "a Toy Fence". 2nd December, 1987.

Class 3. Nos 159163 & 159164 La Telemecanique Electrique, a French Corporation of 33 bis, Avenue du Marechal Joffre 92000 Nanterre, France. "a Case for a disconnector" 15th December, 1987.

Class 3. No 159691 Samar Singh Nahar, 7, Nandalal Jiu Road, Calcutta-700 026, West Bengal India, Indian "Protective toe caps" 16th May 1988.

Class 5 No 158929 Mursh Food Products (P) Ltd D-992, New Friends Colony New Delhi-110 065 India, a company incorporated under the Indian Companies Act "Chocolate Box" 13th October, 1987.

Class 10 Nos 159122, 159124, 159125, 159127 Bata India Limited, 70 Shakespeare Sarani, Calcutta 700 017, West Bengal India "footwear" 2nd December, 1987

Class 10 No 159692. Samar Singh Nahar, 7 Nandalal Jiu Road, Calcutta-700 026, West Bengal, India, Indian. "Protective toe caps" 16th May, 1988.

*Extn. of Copyright for the Second period of five years.*

Nos 156100, 153479 Class-1

Nos 152918, 153181, 158337, 157789, 152962, 153523, 153226. Class 3

No 153354. Class 4

*Extn. of Copyright for the third period of five years*

Nos 158337, 157789 Class-3

No. 153354. Class-4

R A ACHARYA,  
Controller General of Patents, Designs  
and Trade Marks.